

Least Common Denominator IS LCM

12/1/11

$$LCD = LCM$$

To Compare/order fractions - must have like denominators (same)

$$\frac{2}{5} < \frac{3}{5}$$

If den. are not same, rewrite equiv. fractions using LCD, Then compare Numerators.

$$\frac{7 \times 5}{8 \times 5} = \frac{35}{40} > \frac{4 \times 8}{5 \times 8} = \frac{32}{40}$$

To order fractions..... must have like den.

$$\frac{7 \times 5}{8 \times 5} = \frac{35}{40}$$

$$\frac{4 \times 8}{5 \times 8} = \frac{32}{40}$$

$$\frac{8 \times 40}{9 \times 40} = \frac{320}{360}$$

Least ————— Greatest

$$\frac{4}{5}, \frac{7}{8}, \frac{8}{9}$$

$$\begin{array}{c} 8 \\ \downarrow \\ 4 \text{ (2)} \\ \downarrow \\ 2 \text{ (2)} \end{array}$$

$$\begin{array}{c} 5 \\ \downarrow \\ 5 \end{array}$$

$$\begin{array}{c} 9 \\ \downarrow \\ 3 \text{ (3)} \end{array}$$

$$8 = 2 \times 2 \times 2$$

$$5 = 5$$

$$9 = 3 \times 3$$

$$LCM = 360$$

WORK

$$\frac{45}{\cancel{5}1}$$

$$\begin{array}{r} 45 \\ \times 8 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 5 \\ \times 72 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 72 \\ \times 5 \\ \hline 360 \end{array}$$

$$288$$

$$\frac{40}{\cancel{3}9} = \frac{40}{360}$$

$$\begin{array}{r} 40 \\ \times 9 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 12 \\ \times 30 \\ \hline 360 \end{array}$$